

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled).
2. (Previously Presented) The ceramic envelope according to claim 4, wherein a surface roughness R_{max} of an inner surface of said barrel section is in a range of 0.01 to 0.4 mm; and
a density of an additive present on said inner surface of said barrel section is not more than half a density of said additive present in a thick central portion of the barrel section.
3. (Previously Presented) The ceramic envelope according to claim 2, wherein said additive contains at least one material selected from the group consisting of Sc_2O_3 , MgO , ZrO_2 , Y_2O_3 and a lanthanoid-based rare earth oxide.
4. (Currently Amended) A light transmittable ceramic envelope for a high intensity discharge lamp, comprising a barrel section defining a discharge space, said barrel section having integrally formed end portions, said end portions having an inner diameter smaller than an inner diameter of said barrel section to form electrode insertion sections protruding outwardly from said barrel section, wherein a terminal end of each said electrode insertion section defines a respective terminal end of said ceramic envelope, wherein a thickness dimension of each said electrode insertion section, defined between outer and inner surfaces thereof, is substantially constant along the entire length thereof, and wherein a boundary portion between said barrel section and an said inner surface portion of each said electrode insertion sectionssection has a radius of curvature R in a range of 0.01 mm to 3.0 mm.

5. (Previously Presented) The ceramic envelope of claim 4, wherein said barrel section is substantially elliptical.